Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

(Currently Amended) A method comprising:
storing routing information mapping destinations to routes within a network;
storing a set of routing rules;

receiving a network communication comprising destination information and patient data;

comparing at least a portion of the <u>patient</u> data to the set of routing rules; selecting a route from the routing information based on the destination information of the network communication and a result of the comparison; and forwarding the network communication according to the selected route.

- 2. (Currently Amended) The method of claim 1, wherein the network comprises a medical imaging network and the network communication complies with the [[DICOM]] <u>Digital Imaging and Communication in Medicine</u> protocol, and further wherein storing routing information comprises storing routing information mapping Application Entity Names (AENames) to routes within the medical imaging network.
- 3. (Original) The method of claim 2, wherein selecting a route from the routing information comprises comparing an AEName defined within the network communication to the AEName defined within the routing information.
- 4. (Currently Amended) The method of claim 1, wherein the network communication complies with the <u>Digital Imaging and Communication in Medicine</u>

(DICOM) protocol, and further wherein comparing at least a portion of the medical imaging data comprises:

parsing the medical imaging data to identify a set of DICOM tags and corresponding data; and

assessing a routing rule from the set of routing rules based on the DICOM tags and corresponding data.

- 5. (Currently Amended) The method of claim 1, wherein storing a set of routing rules comprises storing an XML-based set of rules, wherein the rules conform to a user-defined grammar for routing the <u>patient medical imaging</u> data.
- 6. (Original) The method of claim 5, further comprising presenting an interface for receiving user input that defines the user-defined grammar.
- 7. (Currently Amended) A router comprising:

a computer-readable medium storing routing information mapping destinations to routes within a medical imaging network, and storing a set of routing rules; and

a routing module that selects a route from the routing information based on destination information of a network communication and a comparison of medical imaging patient data of the network communication to the set of routing rules.

- 8. (Currently Amended) The router of claim 7, wherein the routing information maps [[DICOM]] <u>Digital Imaging and Communication in Medicine</u> Application Entity Names (AENames) to routes within the medical imaging network.
- 9. (Currently Amended) The router of claim 7, wherein the routing module parses the medical imaging patient data to identify a set of <u>Digital Imaging and Communication in Medicine (DICOM)</u> tags and corresponding data, and assesses the routing rules based on the DICOM tags and corresponding data.

- 10. (Currently Amended) The router of claim 7, wherein the set of rules includes rules defined by the eXtensible Markup Language (XML), and which conform to a user-defined grammar for routing the medical imaging patient data.
- 11. (Original) The router of claim 10, further comprising a user interface for presenting an interface for receiving user input that defines the user-defined grammar and the rules.
- 12. (Currently Amended) A computer-readable medium storing data comprising routing information mapping destinations to routes within a medical imaging network, wherein the routing information maps [[DICOM]] <u>Digital Imaging and Communication in Medicine</u> Application Entity Names (AENames) to routes within the medical imaging network.
- 13. (Currently Amended) The computer-readable medium of claim 12, further storing a set of routing rules, wherein the set of rules includes rules defined by the eXtensible Markup Language (XML), and which conform to a user-defined grammar for routing the medical imaging patient data.
- 14. (Currently Amended) A computer-readable medium having instructions thereon to cause a programmable processor to:

store routing information mapping destinations to routes within a medical imaging network;

store a set of routing rules;

receive a network communication comprising destination information and medical imaging patient data;

compare at least a portion of the medical imaging patient data to the set of routing rules;

select a route from the routing information based on the destination information of the network communication and a result of the comparison; and forward the network communication according to the selected route.

- 15. (Currently Amended) The computer-readable medium of claim 14, wherein the network communication complies with the [[DICOM]] <u>Digital Imaging and Communication in Medicine</u> protocol, and further wherein the instructions cause the processor to store routing information mapping Application Entity Names (AENames) to routes within the medical imaging network.
- 16. (Original) The computer-readable of claim 15, wherein the instructions cause the processor to compare an AEName defined within the network communication to the AEName defined within the routing information.
- 17. (Currently Amended) The computer-readable of claim 16, wherein the instructions cause the processor to:

parse the <u>medical imaging patient</u> data to identify a set of <u>Digital Imaging</u> and <u>Communication in Medicine (DICOM)</u> tags and corresponding data; and assess the routing rules based on the DICOM tags and corresponding data.

18. (Original) A method comprising:

receiving user input defining routing information;

generating a rule in Extensible Markup Language (XML) format based on the routing information;

storing the XML-based rule in a rule set;

receiving a network communication comprising medical imaging data;

assessing the XML-based rule based on at least a portion of the medical imaging data; and

routing the network communication based on the assessment of the XML-based rule.

- 19. (Original) The method of claim 18, wherein the user input defines a grammar for routing medical images within a medical imaging environment.
- 20. (Original) The method of claim 18, wherein the user input defines tags including a patient identifier, an imaging modality.

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21.-40. (Cancelled)